





[illegible]

# In-Store Retail Environment

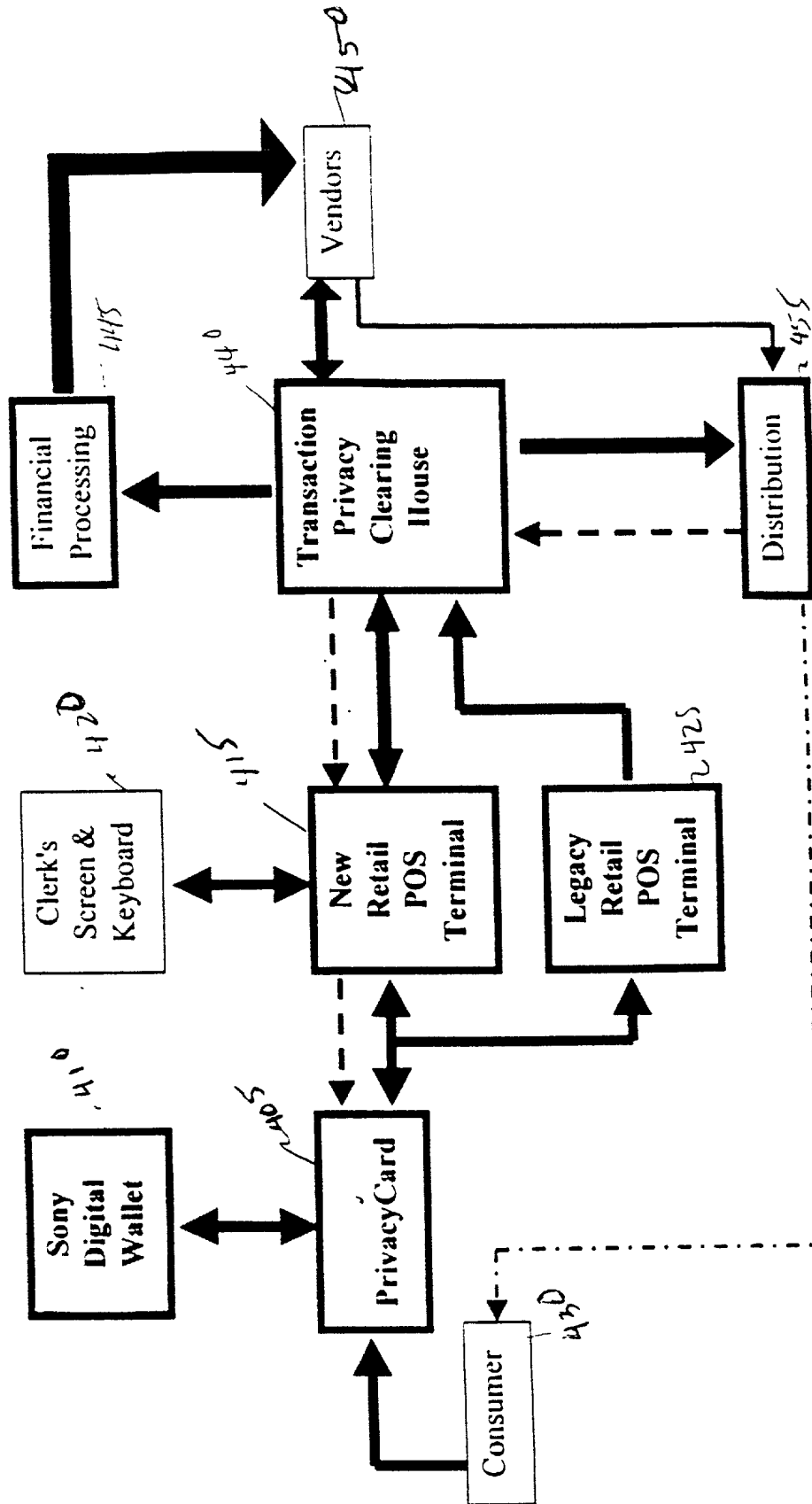


Fig 4

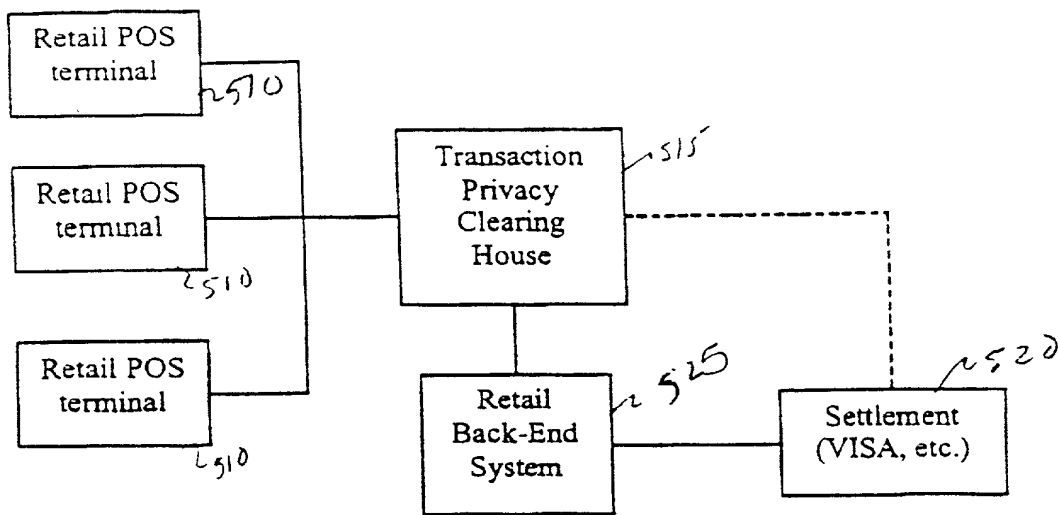


Diagram 5a: A retail system modified to support the interaction of legacy POS terminals with the Digital Wallet system

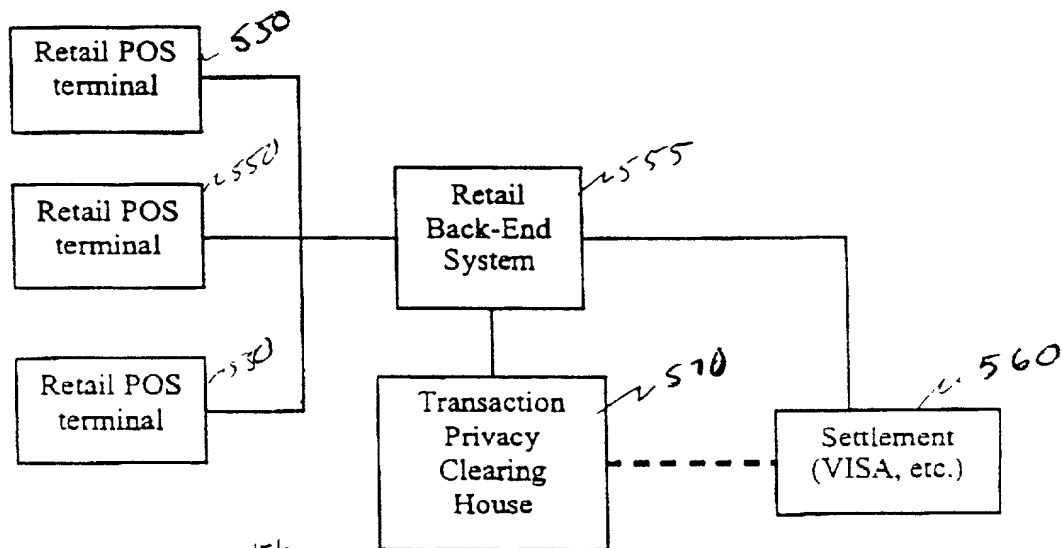


Diagram 5b: An alternative embodiment of the retail system modified to support the interaction of legacy POS terminals with the Digital Wallet system

Fig. 6

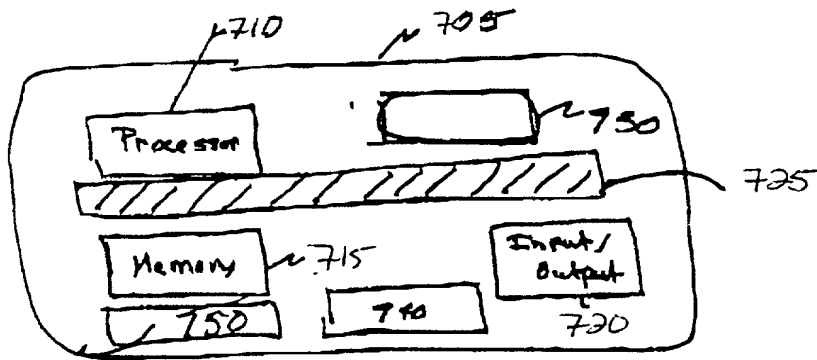


Figure 7a

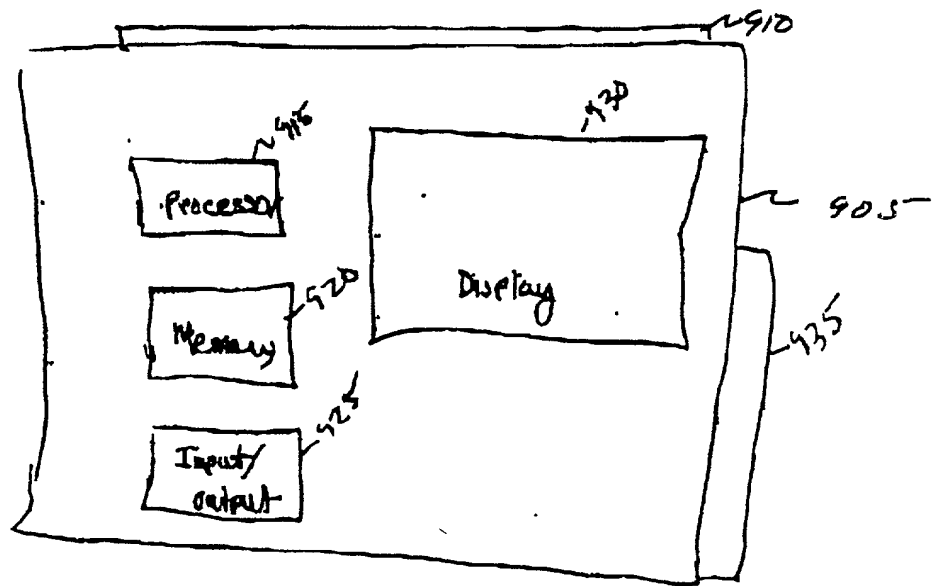
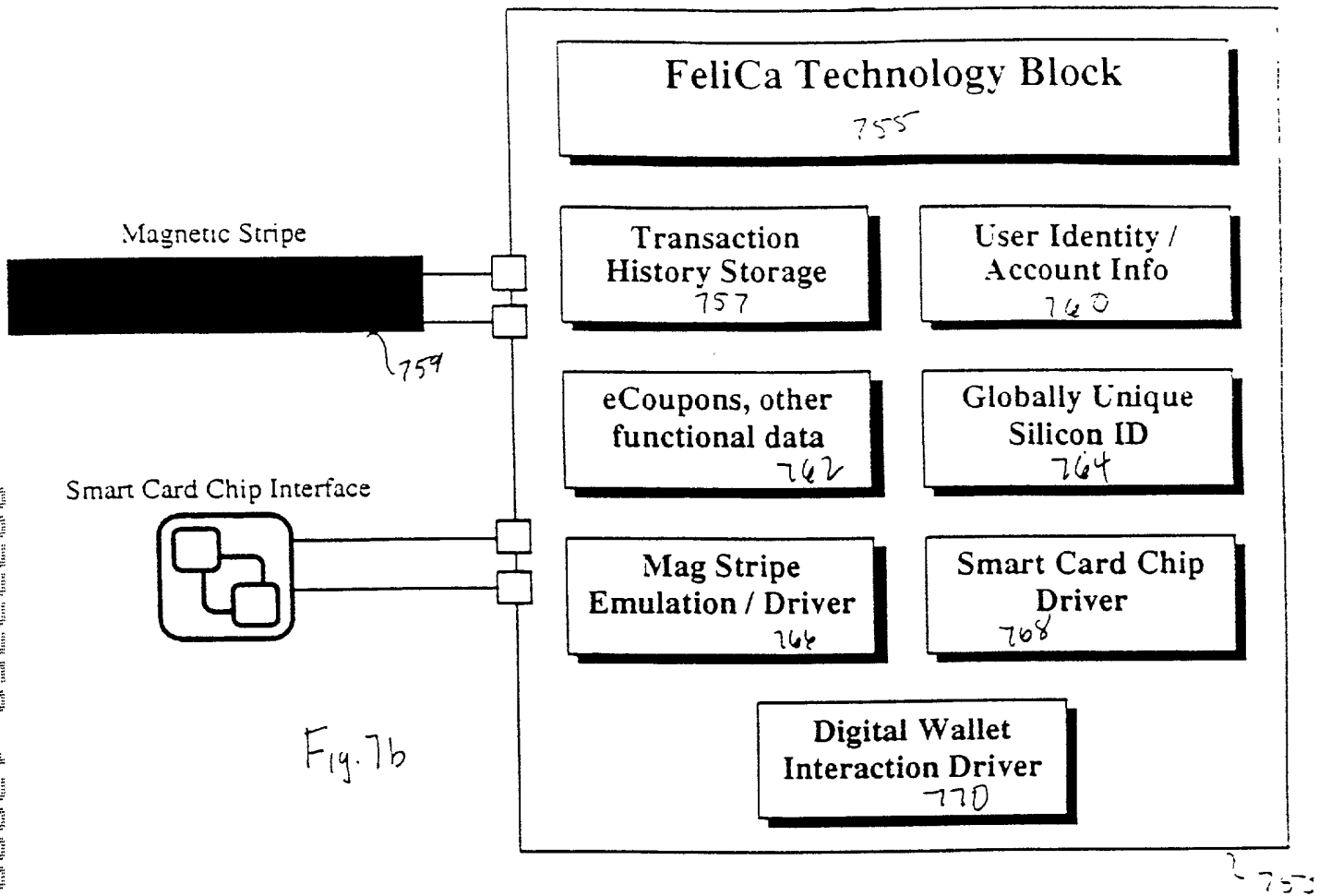


Figure 9a

Downloaded from www.scribd.com





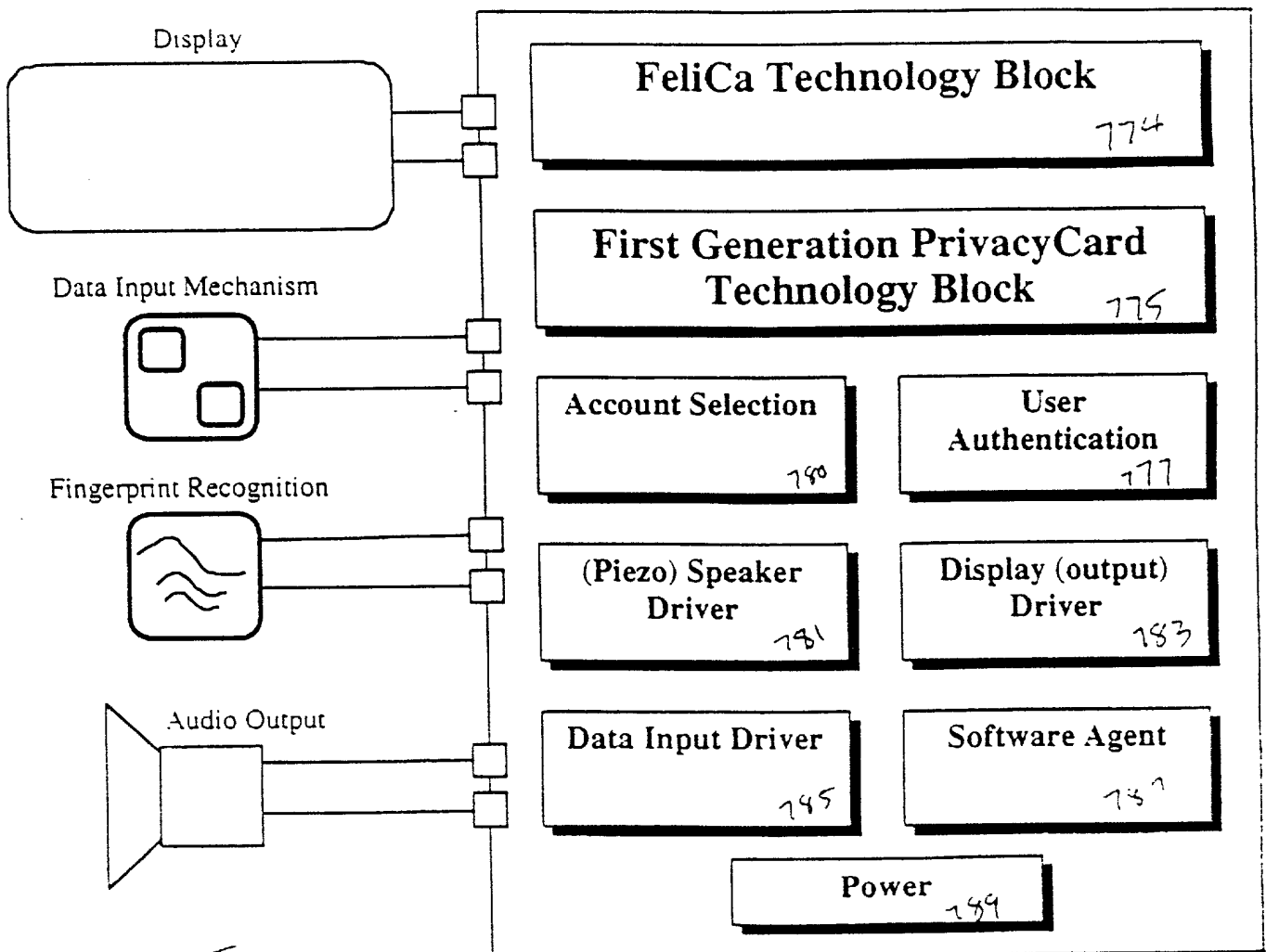


Fig. 7c



# Digital Wallet

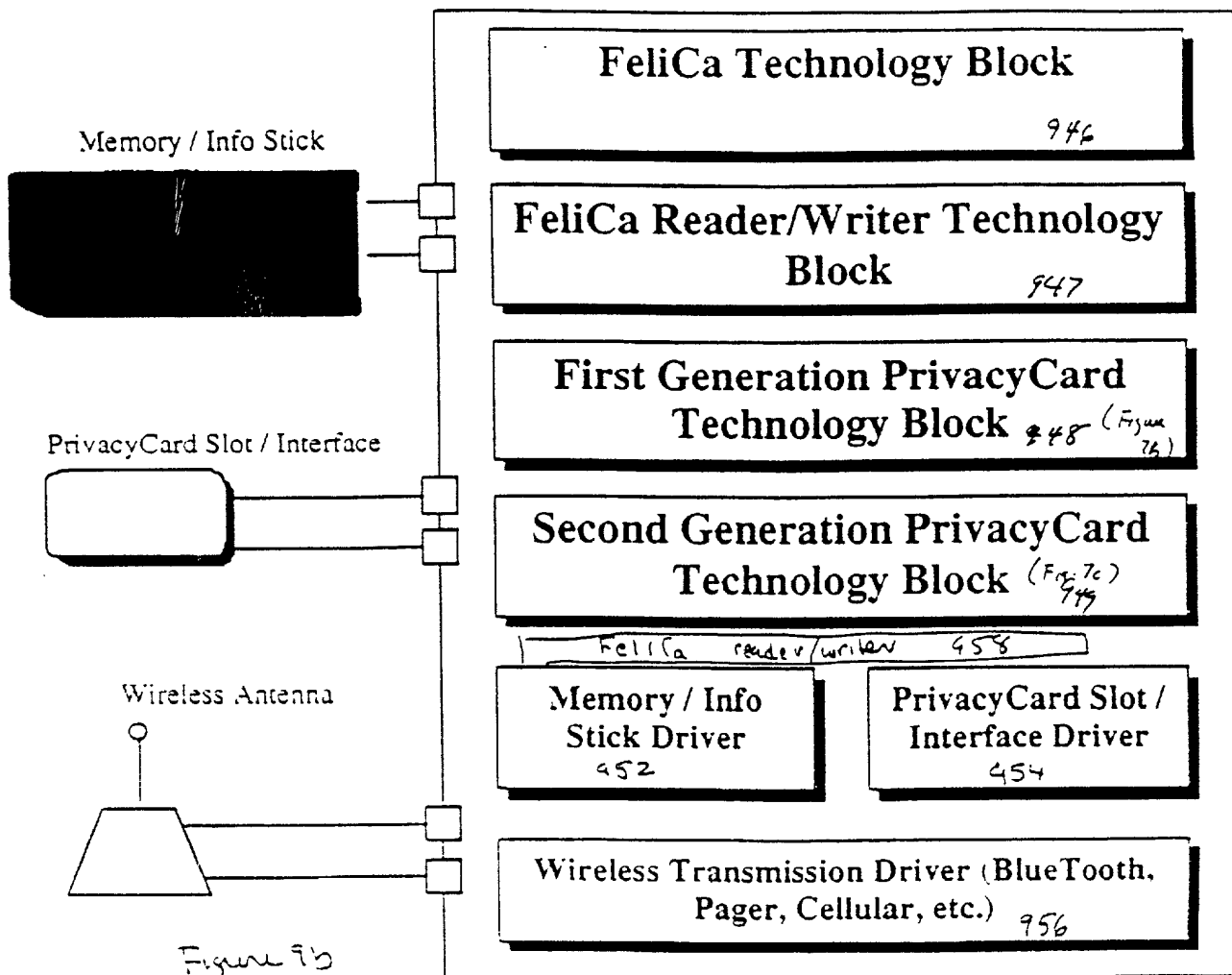


Figure 7b

950

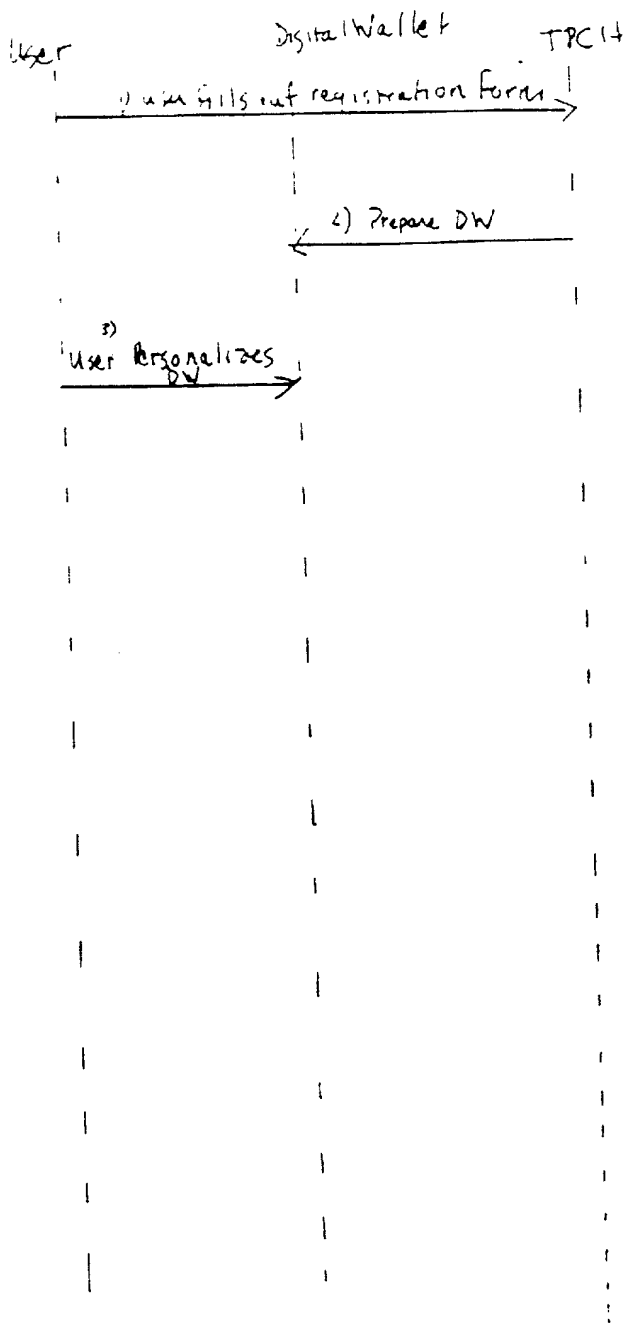


Fig 10

Setup of Digital wallet



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Digital wallet

ГРЧ 11

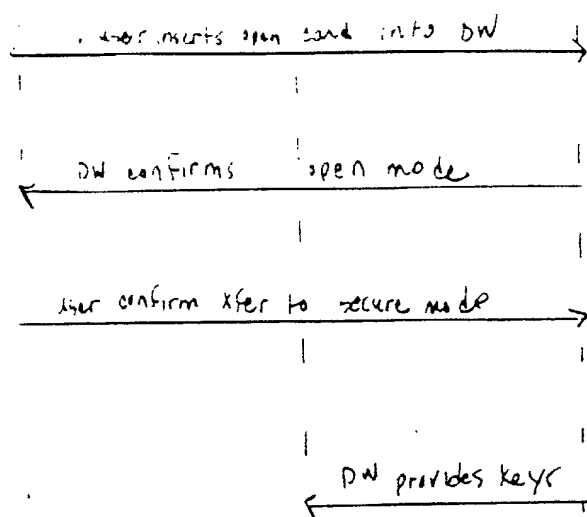


Fig V

conversion of card to Secure

A hand-drawn block diagram of a device architecture. A central square block contains two smaller rectangular boxes. The top box is labeled "Embedded software and storage, additional functionality" and is connected to a line labeled "1045". The bottom box is labeled "built-in modem (preferred)" and is connected to a line labeled "1310".

External connections to the central block include:

- Top: A line labeled "1350" connects to a circle labeled "wireless to Digital Wellstar, etc. (required)".
- Top-right: A line labeled "1340" connects to a circle labeled "wireless to external modem (alternative)".
- Right: A line labeled "1335" connects to a circle labeled "wired to external modem (alternative)".
- Bottom-right: A line labeled "1310" connects to a circle labeled "standard phone or cable modem line, etc.". Below this line is a circle labeled "1360" with the text "analog video/audio (optional)" next to it.
- Bottom: A line labeled "1325" connects to a circle labeled "standard serial or other interface (alternative)".
- Left: A line labeled "1328" connects to a circle labeled "to host device (PC, etc.)".
- Top-left: A line labeled "1334" connects to a circle labeled "IEEE 1394 interface (preferred)".

PK-13

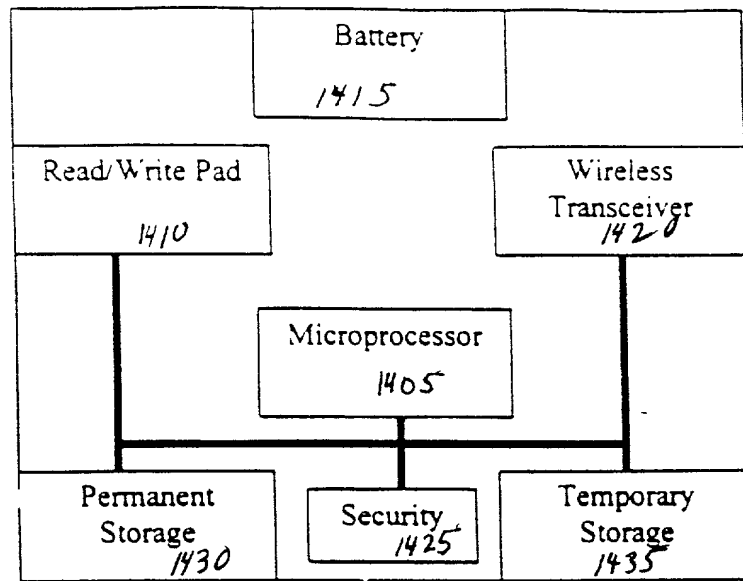


Diagram of the major components of the PersonalPOS,  
showing the data/address bus interconnect.

Fig 14



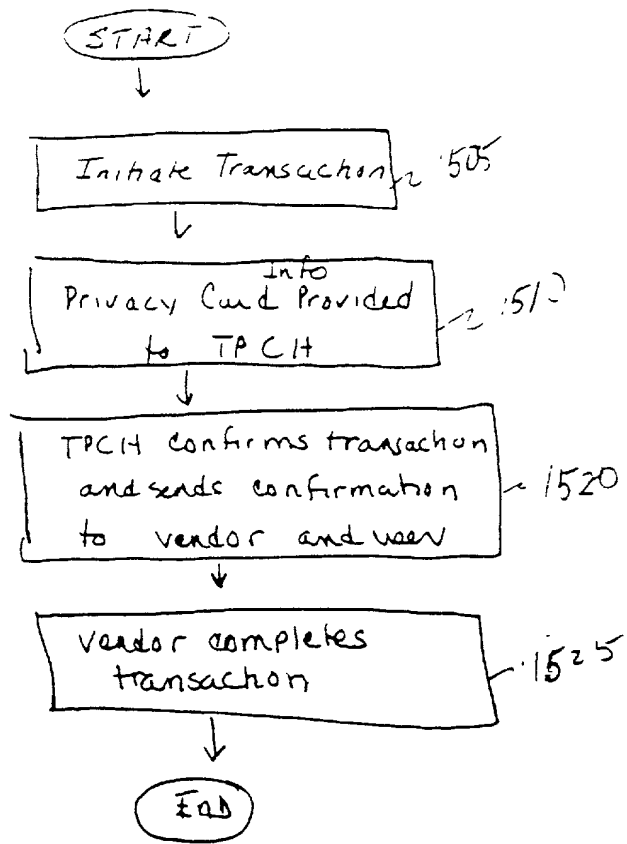


Fig. 15

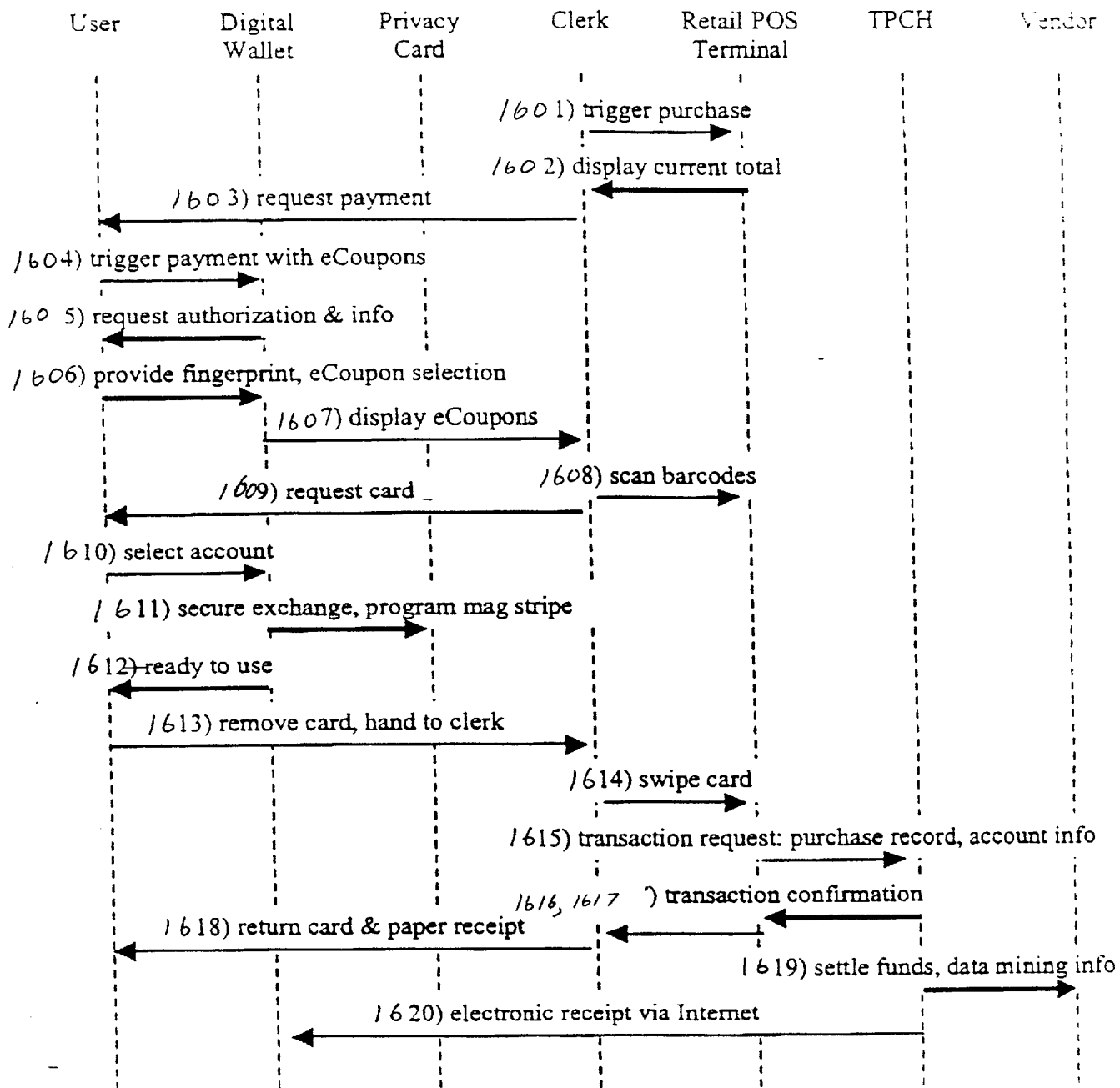


Fig 16

Retail Transaction

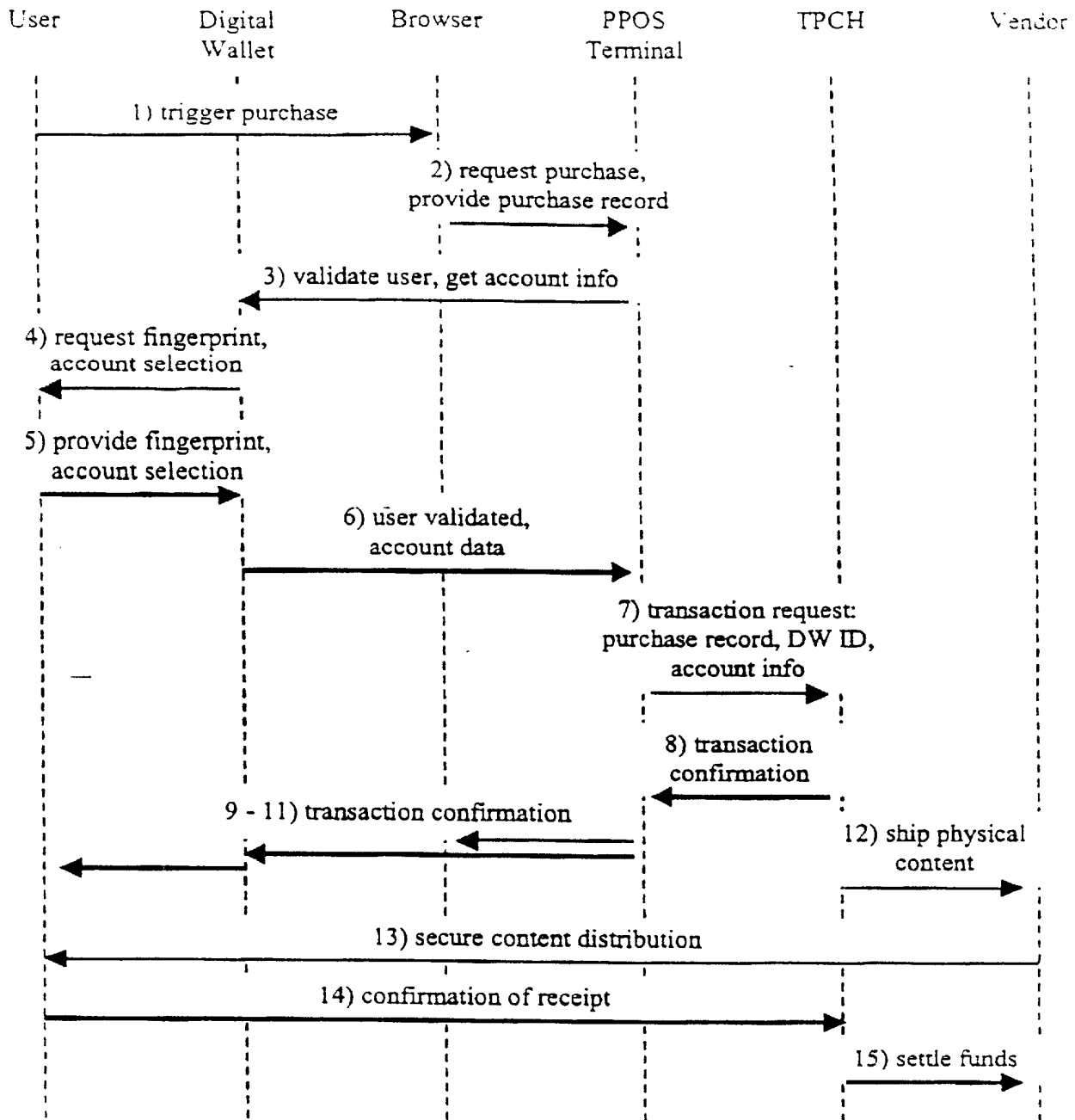


Fig. 17

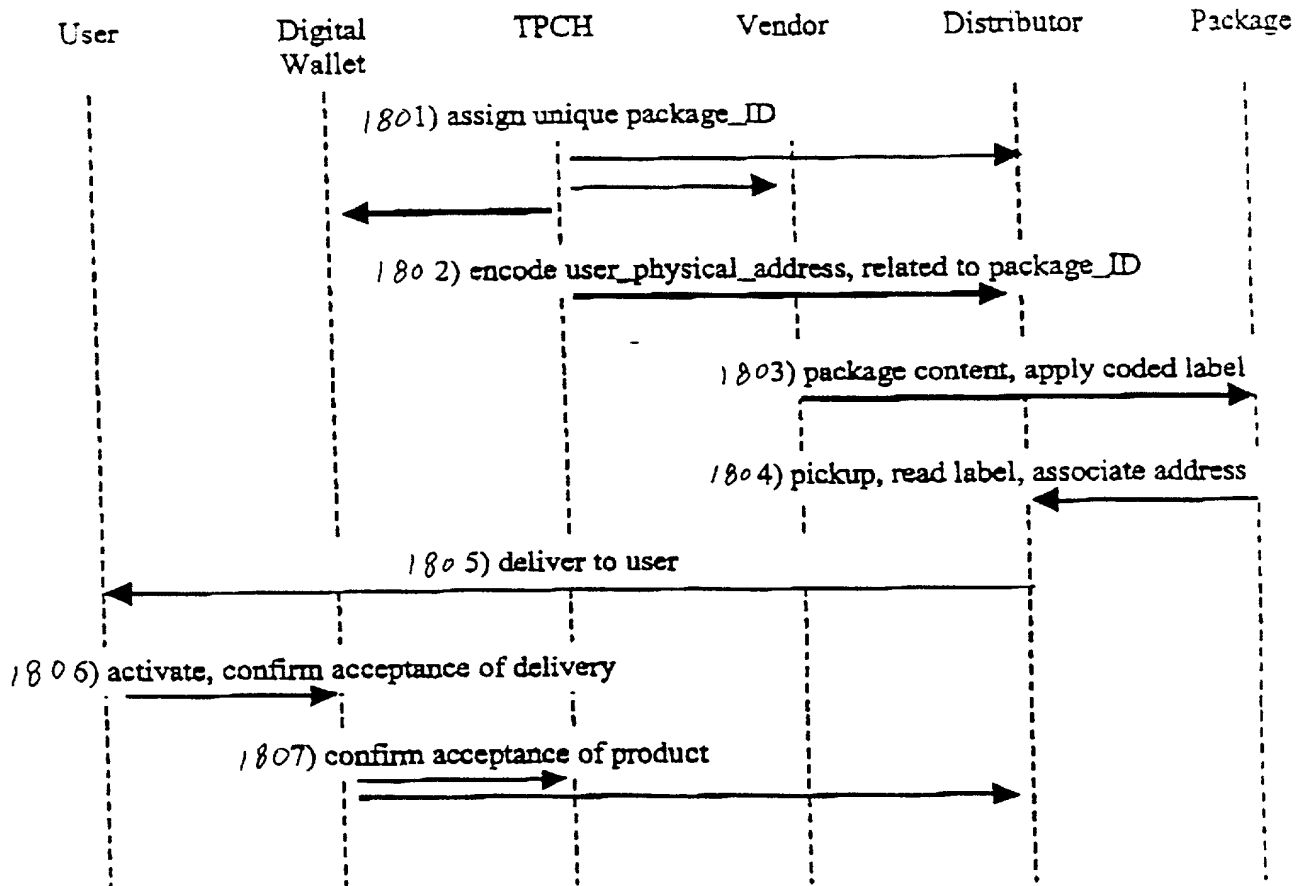


Fig. 18

Delivery of Product

```

sequenceDiagram
    participant User
    participant Digital Wallet
    participant TPCHE
    participant Vendor
    participant Distributor
    participant Package

    User->>Package: 1901) repackage material
    User->>Digital Wallet: 1902) activate, select Return Package
    Digital Wallet->>Package: 1903) apply coded label with package_ID, vendor_address
    Digital Wallet->>Vendor: 1904) contact vendor, distributor for return
    Digital Wallet->>Distributor: 
    Distributor->>Package: 1905) pick up, decode label for package_ID, vendor_address
    Distributor->>Vendor: 1906) deliver to vendor
    
```

### Return of Product

```

sequenceDiagram
    participant User
    participant Digital Wallet
    participant DTV
    participant TPC
    participant Vendor
    participant POS Terminal

    User->>Digital Wallet: 2001) activate, select Purchase
    Digital Wallet->>POS Terminal: 2002) request product info
    POS Terminal->>Digital Wallet: 2003) return product information
    Digital Wallet->>TPC: 2004) issue transaction request, provide data & DW ID
    TPC->>Vendor: 2005) transaction data & DW ID
    Vendor->>TPC: 2006) data mining, direct marketing
    TPC->>Digital Wallet: 2007) full message or content reference
    Digital Wallet->>User: 2008) notify user
    User->>Digital Wallet: 2009) view content, respond as needed
    Digital Wallet->>Vendor: 
    
```

# Data Mining

FIG. 21

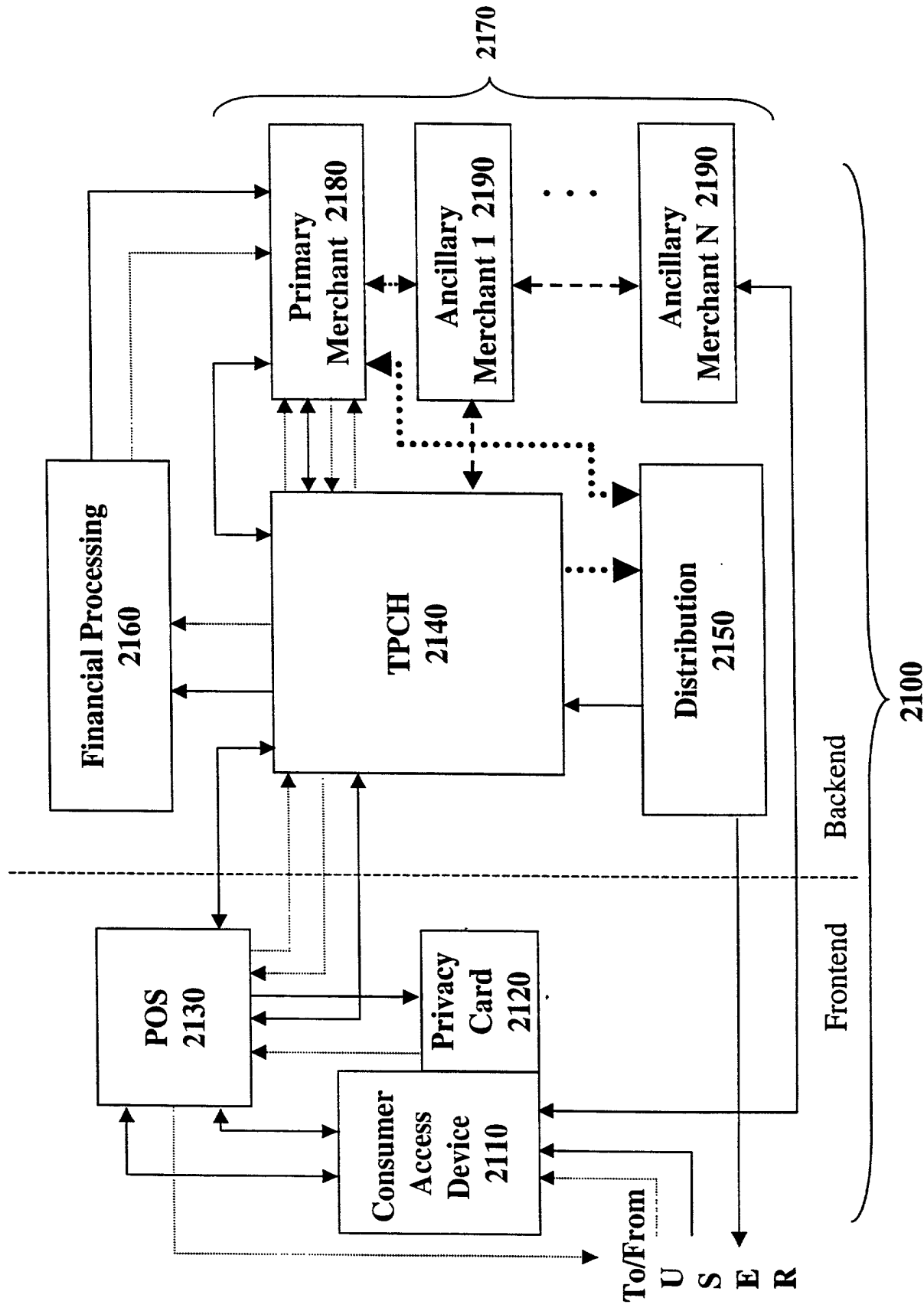
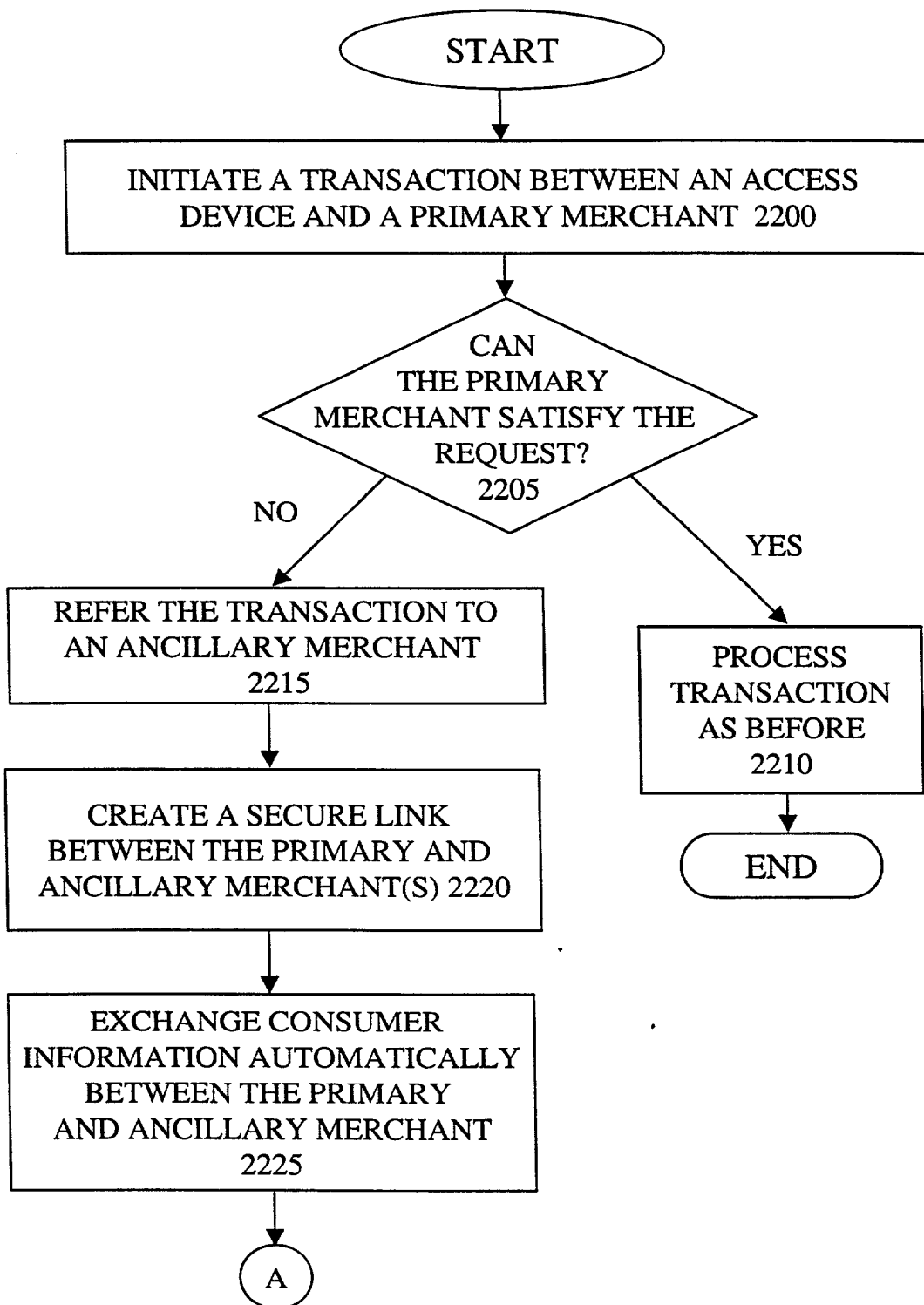


FIG. 22A





**FIG. 22B**

